Wanıtowoc

Cleveland Crane Shovel Sales, Inc.

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Features

- 120 t (130 USt) capacity
- 12,8 m 48,8 m (42 ft 160 ft) five-section, full power boom
- 11 m -18 m (36 ft 59 ft) offsettable bi-fold swingaway extension
- 8 m (26 ft) extension inserts
- Grove MEGAFORM™ boom
- Cummins 239 kW (320 hp) Tier IV, diesel engine





Features



Extensions

A 18 m (59 ft) offsettable bi-fold lattice swingaway extension and two 8 m (26 ft) inserts give the RT9130E-2 a maximum tip height of 85 m (279 ft). A hydraulically offsettable bi-fold lattice swingaway is also available, and conveniently offsets from 0° to 40° from the operator's cab.



CraneSTAR is an exclusive and innovative crane asset management system that helps improve your profitability and reduce costs by remotely monitoring critical crane data. Visit www.cranestar.com for more information.



Boom

The 48,8 m (160 ft) five-section Full Power boom incorporates the "U" shaped MEGAFORM™ design, which eliminates stiffeners, thus reducing weight and increasing capacity.



Cab

The Full Vision cab on the RT9130E-2 tilts up to 20° providing the operator additional comfort when working at long boom and extension lengths.



Removable outrigger boxes

Removable front and rear outrigger boxes provide up to 8788 kg (19,374 lb) of weight reduction for easier transport. Includes the removable 18 100 kg (40,000 lb) of counterweight, auxiliary hoist and rope, and the RT9130E-2 can easily self-remove close to 29 000 kg (64,000 lb).

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Specifications

Superstructure



Boom

12,8 m - 48,8 m (42 ft - 160 ft) five-section, sequenced synchronized full power boom. Maximum tip height: 51,5 m (169 ft)



Lattice extension

11 m - 18 m (36 ft - 59 ft) offsettable bifold lattice swingaway extension. Offsets 0°, 20° and 40°. Stows alongside base boom section. Maximum tip height: 69,2 m (227 ft)



*Optional lattice extension

11 m - 18 m (36 ft - 59 ft) hydraulically offsettable bifold lattice swingaway extension. Offsets from 0° to 40°. Stows alongside base boom section. Maximum tip height: 69,2 m (227 ft)



*Optional lattice extension inserts

Two 8 m (26 ft) lattice extension inserts. Installs between the boom nose and bifold extension, nonstowable. Maximum tip height: 85 m (279 ft)



Boom nose

Seven nylatron sheaves mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeving type boom nose. Removable auxiliary boom nose with removable pin type rope guard.



Boom elevation

One double acting hydraulic cylinder with integral holding valve provides elevation from -3° to 78°.



Load moment and anti-two block system

Standard "Graphic Display" load moment and anti-two block system with audio-visual warning and control lever lockout. These systems provide electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition. The standard Work Area Definition System allows the operator to pre-select and define safe working areas. If the crane approaches the pre-set limits, audio-visual warnings aid the operator in avoiding job-site obstructions.



Cab

20° tilt, full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Deluxe seat incorporates armrest-mounted hydraulic single-axis controllers. Tilt/telescoping steering wheel with various controls incorporated into the steering column. Other standard features include: hot water heater, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinquisher, seat belt, air conditioning, and dual cab mounted work



Swing

Two speed, (2) planetary swing drives with foot applied multi-disc wet brakes. Spring applied, hydraulically released swing brakes. 360° positive swing lock and two-position mechanical house lock, both operated from cab. Maximum speed: 2.5 rpm



Counterweight

18 144 kg (40,000 lb) of total counterweight. Hydraulically installed and removed.



Hydraulic system

Six main pumps with a combined capacity of 776 LPM (205 GPM).

Maximum operating pressure: 331 bar (4800 psi). Two individual post pressure compensated valve banks. Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16.

1230 L (325 gal) reservoir. Remote mounted oil cooler with thermostatically controlled hydraulic driven motor, fan/air to oil. System pressure test ports.



Hoist specifications main and auxiliary hoist

Planetary reduction with automatic spring applied multi-disc brake. Grooved drum electronic hoist drum rotation indicator, and hoist drum cable followers.

Maximum single line pull:

1st layer - 8740 kg (19,267 lb)

3rd layer - 7432 kg (16,384 lb)

5th layer - 6464 kg (14,251 lb)

Maximum permissible line pull: 7620 kg (16,800 lb) with 6 x 37 class rope 7620 kg (16,800 lb) with 35 x 7 class rope

Maximum single line speed: 171 m/min (562 fpm)

Specifications

Superstructure continued

Rope class:

6 x 37 EIPS IWRC, Special Flexible 35 x 7 EIPS WSC, Rotation Resistant

Rope diameter: 19 mm (3/4 in)

Rope length:

Main hoist - 290 m (950 ft) Auxiliary hoist - 213 m (700 ft)

Maximum rope stowage: 368 m (1206 ft)

Carrier



Chassis

Box section frame fabricated from high-strength, low alloy steel. Removable outrigger housings, front/rear towing and tie down lugs.



Outrigger system

Four hydraulic telescoping single-stage double box beam outriggers with inverted jacks and integral holding valves. Three position settings, 0%, 50% and fully extended. Outrigger boxes removable for ease of transportation. All steel fabricated, quick release type outrigger floats, 775 m (30.5 in) diameter.

Maximum outrigger pad load - 75 298 kg (166,000 lb)



Outrigger controls

Controls and crane level indicator located in cab.



Engine (Tier IV)

Cummins QSC8.3L diesel, six cylinder, turbo-charged with Cummins diesel particulate exhaust filter/muffler. Meets U.S. E.P.A. Tier IV and E.U. Stage IIIB. 239 kW (320 bhp) gross at 2200 rpm.

Maximum torque: 1383 Nm (1020 ft lb) at 1500 rpm. Fuel requirements: Maximum of 15 PPM sulphur content (Ultra low diesel fuel).

Note: Tier IV engine required in North American and European Union countries.



Engine (Tier III)

Cummins QSC8.3L diesel, six cylinders, 224 kW (300 bhp) (Gross) at 2200 rpm.

Maximum torque: 1356 Nm (1000 ft lb) at 1600 rpm



Fuel tank capacity

379 L (100 gal)



Transmission

Full powershift with 6 forward and 3 reverse speeds. Front axle disconnect for 4 x 2 travel.



Electrical system

Three12 V - maintenance free batteries. 12 V starting and lighting, circuit breakers.



 4×4



Steering

Fully independent power steering:
Front: Full hydraulic steering wheel controlled.
Rear: Full hydraulic switch controlled.
Provides infinite variations of four main steering modes: front only, rear only, crab and coordinated.
Rear steer centered indicator light.



Axles

Front: Drive/steer with differential and planetary reduction hubs rigid mounted to frame.

Rear: Drive/steer with differential and planetary reduction hubs pivot mounted to frame.



Oscillation lockouts

Automatic full hydraulic lockouts on rear axle permits 254 mm (10 in) oscillation with boom centered over the front.



Brakes

Full hydraulic split circuit, dry disc service brakes operating on all wheels. Spring-applied, hydraulically released parking brake mounted on front axle.



Tires

Standard 33.25 x 29 - 38 bias ply, Titan SL-100



Lights

Full lighting including turn indicators, head, tail, brake and hazard warning lights.

Specifications

Carrier continued



Maximum speed

24 km/h (15 mph)



Gradeability (theoretical)

73% (Based on 79 460 kg [175,178 lb] GVW) 33.25 x 29 tires, pumps engaged, 48,8 m (160 ft) boom, plus 18 m (59 ft) swingaway, 18 144 kg (40,000 lb) counterweight, hookblock and headache ball.

Miscellaneous standard equipment

Full width aluminum fenders, full length aluminum decking, dual rear view mirrors, hook-block tie down, electronic back-up alarm, light package, front stowage well, tachometer/hourmeter, immersion type block heater, rear wheel position indicator, 36,000 BTU hot water cab heater, hoist mirrors, engine distress A/V warning system, front/rear tie down and tow lugs, coolant sight level indicator, hydraulic pump disconnect, LMI light bar. Hydraulically activated boom removal pins, lift cylinder travel support, 80 USt hook block, 10 USt top swivel ball.

*Optional equipment

■ AUXILIARY LIGHTING AND CONVENIENCE PACKAGE:

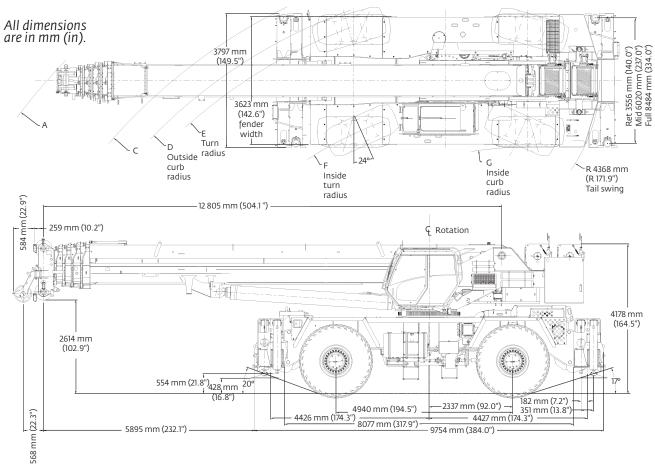
Includes superstructure mounted amber flashing light, dual base boom mounted floodlights, and rubber mat for stowage trough.

- ≥ 130 USt hook block
- Rear pintle hook
- Cab controlled cross axle differential locks, (front and rear)
- PAT event recorder down load kit
- Wind speed indicator (wireless)
- Third wrap indicator with hoist cut-out (main and auxiliary)

Dimensions and weights

Dimer	Dimensions													
Tire size	Α	В	С	D	E	F	G	Α	В	С	D	Е	F	G
33.25 X 29	18 237 mm (717.9")	18 847 mm (742.0")	15 748 mm (620.0")	14 884 mm (585.9")	14 453 mm (569.9")	11 709 mm (460.9")	10 236 mm (402.9")	13 970 mm (550.0")	14 453 mm (569.0")	10 973 mm (432.0")	10 135 mm (399.0")	9652 mm (380.0")	6909 mm (272.0")	5918 mm (232.9")
	2 Wheel Steer					•	4	Wheel Stee	er					

Dimensions for table are represented in meters (inches). Conversions may not be exact.



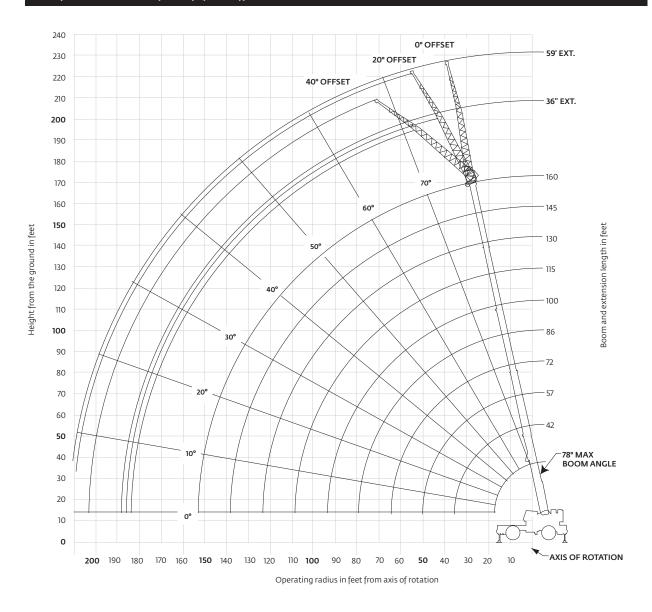
Weights				
	Gross kg (lb)	Front kg (lb)	Rear kg (lb)	Weight of items removed
Basic Machine: Includes 160 ft main boom, main hoist with 950 ft of wire rope and auxiliary hoist with 700 ft of wire rope, manual offsettable bifold swingaway, full counterweight, 10 USt headache ball, and 90 USt hook block:	79 460 (175,178)	36 275 (79,971)	43 186 (95,207)	
Sub: Hydraulic offsettable bi-fold swingaway	79 736 (175,786)	36 906 (81,363)	42 830 (94,423)	
Remove: 40,000 lb counterweight, auxiliary hoist with rope, and manual offsettable swingaway	58 015	39 801	18 214	21 734
	(127,899)	(87,744)	(40,155)	(47,194)
Remove: 40,000 lb counterweight, auxiliary hoist with rope, manual offsettable swingaway, 80 USt hook block, 10 USt headache ball, and both outrigger boxes/beams	48 403	34 535	13 867	31 019
	(106,708)	(76,136)	(30,572)	(68,385)
Remove: 40,000 lb counterweight, auxiliary hoist with rope, both outrigger boxes/beams, 80 USt hook block, 10 USt headache ball, and boom assembly	33 202	14 191	19 011	46 220
	(73,196)	(31,285)	(41,911)	(101,897)
Remove: 40,000 lb counterweight, auxiliary hoist with rope, both outrigger boxes/beams, 80 USt hook block, 10 USt headache ball, boom assembly, and all tire/wheels	28 883	12 032	16 852	50 539
	(63,676)	(26,525)	(37,151)	(111,417)

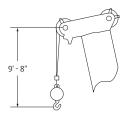
Grove RT9130E-2

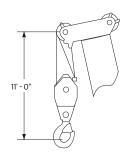
7

Working range

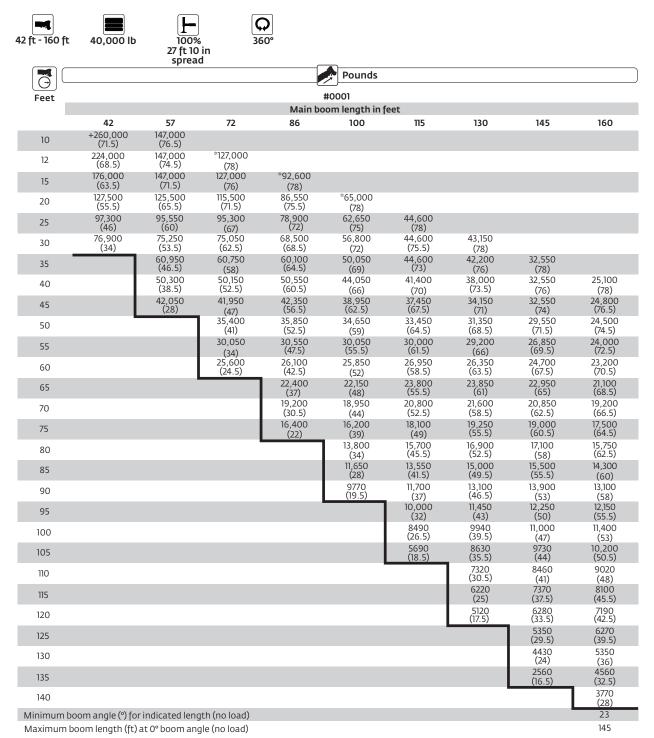
160 ft main boom + 36 ft - 59 ft fixed offset extension







Dimensions are for largest Grove furnished hookblock and headache ball, with anti-two block activated.

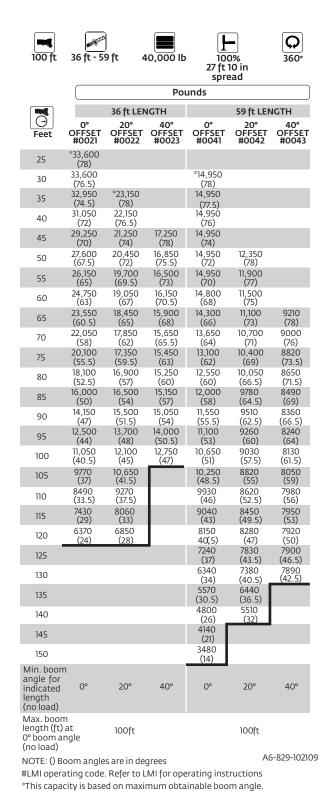


[#]LMI operating code. Refer to LMI manual for instructions.

⁺¹⁶ parts line required to lift this capacity (using aux. boom nose). Refer to Operator's and Safety Handbook for reeving diagram. Note: () Boom angles are in degrees.

	Lifting capacities at zero degree boom angle									
Boom Main boom length in feet										
Angle	42	57	72	86	100	115	130	145	160	
0°	41,400 (35.3)	24,650 (50)	15,350 (64.6)	9700 (79.3)	5250 (94)	3650 (108.6)	2450 (123.3)	1450 (138)		
Note: () Refer	A6-829-103576									

^{*}This capacity is based upon maximum obtainable boom angle.



- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 36 ft boom extension may be used for single or double line lifting service. 59 ft boom extension may be used for single line lifting service only.
 - **WARNING**: Lifting with the 36 ft extension base, with the 23 ft extension fly either erected or folded along side of extension base, is strictly prohibited.
- Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.
 - **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.

NOTES:

130 ft	_	- 59 ft	40,000 I	00% t 10 in read	Q 360°	
			Po	unds		
		36 ft LENG			Н	
Feet	0° OFFSET #0021	20° OFFSET #0022	40° OFFSET #0023	0° OFFSET #0041	20° OFFSET #0042	40° OFFSET #0043
35	23,350 (78)					
40	23,350 (77)			12,300 (78)		
45	23,350 (75)	*21,300 (78)		12,300 (77.5)		
50	23,350 (73.5)	20,700 (76.5)		12,300 (76)		
55	23,350 (71.5)	20,100 (75)	16,600 (78)	12,300 (74.5)		
60	23,350 (69.5)	19,500 (73)	16,350 (76)	12,300 (73)	11,600 (78)	
65	22,300	19,000	16,100	12,300	11,300	
70	(67.5) 20,350	(71) 18,500	(74) 15,850	(71.5) 12,300	(77) 10,950	
75	(66) 18,350	(69) 18,050	(72) 15,650	(69.5) 12,300	(75) 10,700	8940
	(64) 16,600	(67) 17,100	(70) 15,500	(68) 12,300	(73.5) 10,400	(78) 8790
80	(62) 15,050	(65) 15,550	(68) 15,300	(66.5) 12,300	(72) 10.150	(76) 8650
85	(60)	(63)	(66) 14,500	(64.5)	(70) 9910	(74.5) 8520
90	13,700 (57.5)	14,150 (61)	(63.5)	12,300 (63)	(68.5)	(72.5)
95	12,450 (55.5)	12,900 (58.5)	13,250 (61.5)	11,900 (61)	9680 (66.5)	8410 (70.5)
100	11,300 (53.5)	11,750 (56.5)	12,100 (59)	11,450 (59)	9460 (64.5)	8300 (68.5)
105	10,300 (51)	10,750 (54)	11,050 (56.5)	10,500 (57.5)	9260 (63)	8210 (66.5)
110	9390 (48.5)	9810 (52)	10,050 (54)	9580 (55.5)	9060 (61)	8120 (64.5)
115	8570	8970 (49.5)	9200 (51.5)	8790 (53.5)	8860 (59)	8050 (62.5)
120	(46) 7750	8140	8350	8010	8660	7990
125	(43.5) 6840	(46.5) 7360	(48.5) 7600	(51.5) 7340	(57) 7960	(60.5) 7820
130	(41) 5940	(44) 6590	(45.5) 6850	(49.5) 6680	(54.5) 7270	(58) 7660
	(38) 5170	(41) 5730	(42.5)	(47.5) 6100	(52.5) 6660	(55.5) 7010
135	(34.5) 4400	(37.5) 4880		(45) 5530	(50.5) 6050	(53.5) 6360
140	(31)	(34)		(42.5)	(48)	(50.5)
145	3730 (27.5)	4120 (30)		4890 (40)	5510 (45.5)	5770 (48)
150	3070 (22.5)	3360 (25.5)		4260 (37.5)	4970 (42.5)	5190 (45)
155				3670 (35)	4360 (40)	
160				3090 (31.5)	3750 (36.5)	
165				2570 (28.5)	3120 (33)	
170				2060 (24.5)	2490 (29)	
Min. boom angle for indicated length (no load)	1 20°	20°	40°	20°	20°	40°
Max. boon length (ft)		100 ft			100 ft	

NOTE: () Boom angles are in degrees

(no load)

#LMI operating code. Refer to LMI for operating instructions

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 36 ft boom extension may be used for single or double line lifting service. 59 ft boom extension may be used for single line lifting service only. WARNING: Lifting with the 36 ft extension base, with the 23 ft extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.

A6-829-102127

^{*}This capacity is based on maximum obtainable boom angle.

160 ft	36 ft - 59 f	t 40,	000 lb	100 27 ft 1 spre	0 in	Q 360°
			Pou	nds		
		ft LENGT			ft LENGT	
Feet	0° OFFSET #0021	20° OFFSET #0022	40° OFFSET #0023	0° OFFSET #0041	20° OFFSET #0042	40° OFFSET #0043
45	16,000 (78)					
50	16,000 (77.5)					
55	15,900 (76)			10,100 (78)		
60	15,850 (74)	15,700 (77.5)		10,100 (77)		
65	15,800 (72.5)	15,700 (76)	*15,200 (78)	10,100 (75.5)		
70	15,750 (71)	15,000 (74.5)	14,750 (77)	10,100 (74)	10,050 (78)	
75	14,950 (69.5)	14,300 (73)	14,100 (75.5)	10,100 (73)	10,050 (77.5)	
80	14,200 (68)	13,600 (71)	13,450 (74)	10,100 (71.5)	10,050 (76)	
85	13,450 (66)	12,950 (69.5)	12,850 (72)	10,100 (70)	10,050 (74.5)	8600 (78)
90	12,800 (64.5)	12,350 (68)	12,250 (70.5)	10,100 (68.5)	9870 (73)	8500 (77.5)
95	11,700 (63)	11,750 (66)	11,700 (68.5)	10,100 (67)	9680 (72)	8400 (75.5)
100	10,650 (61)	11,200 (64.5)	11,200	9710 (65.5)	9450 (70)	8310 (74)
105	9710 (59.5)	10,250 (62.5)	10,400 (65)	9280 (64)	9050 (68.5)	8220 (72.5)
110	8780 (57.5)	9310 (61)	9680 (63)	8850 (62.5)	8650 (67)	8140 (71)
115	7990 (55.5)	8500 (59)	8840 (61)	8110 (61)	8280 (65.5)	7920 (69.5)
120	7210	7690	8010	7370	7920	7700
125	(53.5) 6540 (53)	(57) 7000	(59) 7290 (57)	(59.5) 6720	(64) 7360	(67.5) 7440
130	(52) 5880	(55) 6310	(57) 6580	(57.5) 6070	(62.5) 6810	(66) 7190
135	(49.5) 5300	(53) 5710	(55) 5950	(56) 5510	(60.5) 6210	(64) 6630
140	(47.5) 4730	(51) 5110	(53) 5330	(54.5) 4950	(59) 5620	(62.5) 6080
145	(45.5) 4190	(49) 4580	(50.5) 4770	(52.5) 4460	(57) 5100	(60.5) 5520
150	(43) 3650	(46.5) 4060	(48) 4220	(50.5) 3980	(55.5) 4580	(58.5) 4970
155	(41) 3070	(44) 3500	(45.5) 3660	(49) 3550	(53.5) 4120	(56.5) 4470
160	(38.5) 2490	(41.5) 2940	(43)	(47) 313Q	(51.5) 3660	(54.5) 3970
165	(35.5) 1970	(38.5)		(45) 2710	(49.5) 3240	(52) 3510
170	(32.5) 1460	(36)		(43)	(47.5) 2830	(50) 3060
175	(29.5)	(32.5)		(40.5)	(45) 2420	(47.5) 2640
180				(38.5)	(43) 2010	(45) 2220 (43)
185				(36)	(40) 1530 (27.5)	(42)
Min. boom angle for indicated length (no l	26 oad)	28	40	34	35.5)	40
length (ft) a 0° boom an (no load)		100			100	

A6-829-101980A

#LMI operating code. Refer to LMI for operating instructions

NOTE: () Boom angles are in degrees

*This capacity is based on maximum obtainable boom angle.

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. 36 ft boom extension may be used for single or double line lifting service. 59 ft boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft extension base, with the 23 ft extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a fully extended boom with the boom extension erected. For main boom lengths less than fully extended, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

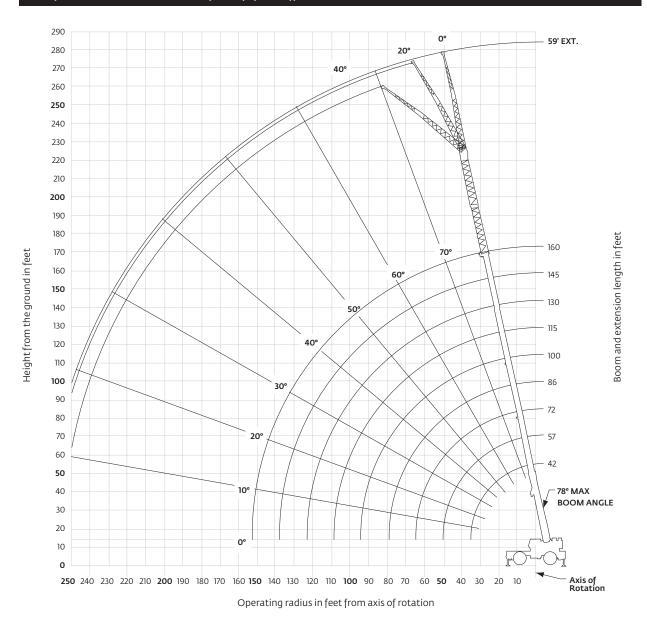
WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

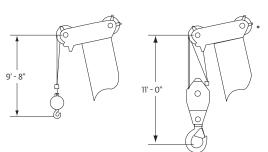
4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.

5. Capacities listed are with outriggers properly extended and vertical jacks set only.

Working range

160 ft main boom + 2 inserts + 36 ft - 59 ft fixed offset extension





Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

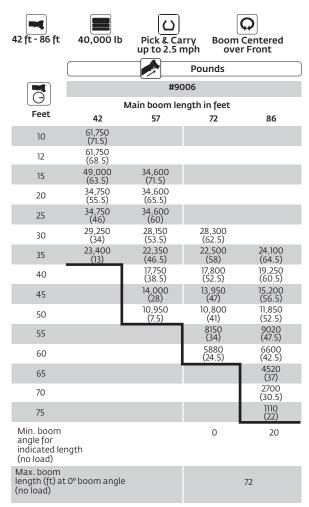
160 ft	59 ft 26	ft or 52 ft Insert	40,000 lb	100% 27 ft 10 ir spread	360	<u>)</u>
			Pounds			
	•		26 ft INSERT	•		52 ft INSERT
Feet	O° OFFSET #0084	20° OFFSET #0085	40° OFFSET #0086	O° OFFSET #0084	20° OFFSET #0085	40° OFFSET #0086
60	7070 (78)					
65	7070 (77.5)					
70	7070 (76.5)			4400 (78)		
75	7070 (75)			4400 (77.5)		
80	7070 (74)	6610 (78)		4400 (76.5)		
85	7070 (72.5)	6610 (77.5)		4400 (75.5)		
90	7070 (71.5)	6610 (76)		4400 (74.5)	4230 (78)	
95	7070 (70)	6610 (75)	6400 (78)	4400 (73)	4230 (77.5)	
100	7070 (69)	6610 (73.5)	6400	4400	4230 (76.5)	
105	7070	6610	(77) 6400	(72) 4400	4230	4000
110	(67.5) 7070	(72.5) 6 <u>61</u> 0	(76) 6400	(71) 4400	(75.5) 4230	(78) 4 <u>00</u> 0
115	(66) 6735	(71) 6545	(74.5) 6315	(69.5) 4400	(74) 4230	(77) 4000
	(65) 6400	(69.5) 6480	(73) 6230	(68.5) 4400	(73) 4230	(75.5) 4000
120	(63.5) 5940	(68) 6170	(71.5) 5955	(67.5) 4400	(72) 4230	(74.5) 4000
125	(62)	(67)	(70)	(66)	(70.5)	(73)
130	5480 (60.5)	5860 (65.5)	5680 (68.5)	4400 (65)	4230 (69.5)	4000 (72)
135	4930 (59.5)	5510 (64)	5440 (67)	4110 (63.5)	4195 (68)	4000 (70.5)
140	4380 (58)	5160 (62.5)	5200 (65.5)	3820 (62.5)	4160 (67)	4000 (69)
145	3900 (56.5)	4645 (61)	4910 (64)	3350 (61)	3885 (65.5)	3785 (68)
150	3420 (55)	4130 (59.5)	4620 (62.5)	2880 (60)	3610 (64)	3570 (66.5)
155	3000 (53.5)	3680 (58)	4140 (60.5)	2470 (58.5)	3205 (63)	3365 (65)
160	2580 (51.5)	3230 (56.5)	3660 (59)	2060 (57)	2800 (61.5)	3160 (63.5)
165	2210	2825	3220	1690	2405	2810
170	(50) 1840 (48.5)	(54.5) 2420 (53)	(57.5) 2780	(56)	(60) 2010 (50)	(62.5) 2460 (61)
175	(48.5) 1515 (46.5)	(53) 2060	(55.5) 2385 (53.5)		(59) 1655 (57.5)	(61) 2075 (50.5)
180	(46.5)	(51) 1700 (40.5)	(53.5) 1990 (51.5)		(5/.5)	(59.5) 1690 (58)
185		(49.5) 1370	(51.5) 1625			(58)
Min. boom angle for indicate length (no load)	45 ed	(47.5) 46	(49.5) 48	54	56	56
Max. boom length (ft) a 0° boom and (no load)	t gle	57		,	57 4 6-829-1019	983A

NOTE: () Boom angles are in degrees #LMI operating code. Refer to LMI for operating instructions

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE 1-765.
- accordance with SAE J-765.

 2. 59 ft folding boom extension length may be used for single line lifting service only.

 Note: Lifting with the 36 ft extension base with either one or two 26 ft insert sections installed is not permitted.
- 3. For main boom lengths less than 160 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use the rating of the next lower boom angle.
- 4. **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.



NOTE: () Boom angles are in degrees #LMI operating code. Refer to LMI for operating instructions

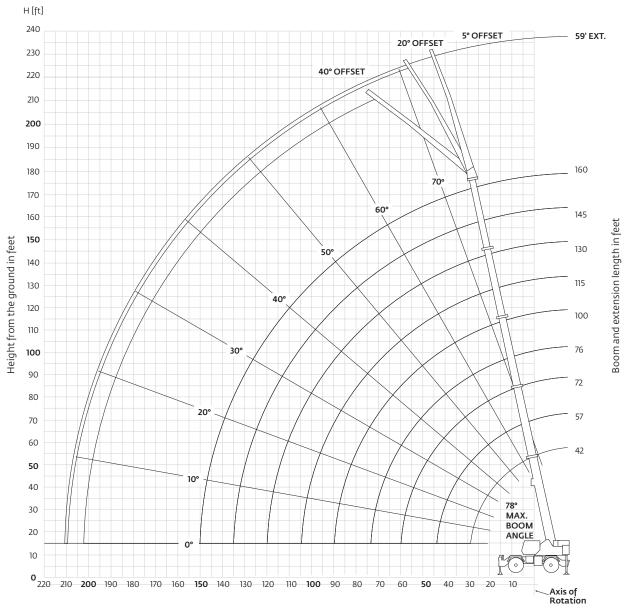
Lifting capacities at zero degree boom angle									
Boom angle	42	57							
0°	23,000 (35.3)	10,900 (50)							
			A6-829-102108A						

- 1. Capacities are in pounds and do not exceed 75% of tipping loads as determined by test in accordance with SAE J-765.
- 2. Capacities are applicable to machines equipped with 33.25x29 (38 ply) bias ply tires, at 85 psi cold inflation pressure.
- 3. Capacities appearing above the bold line are based on structural strength and tipping should not be relied upon as a capacity limitation.
- 4. Capacities are applicable only with machine on firm level surface.

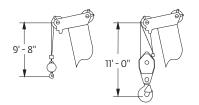
 5. On rubber lifting with boom extension not
- permitted.
- 6. Axle lockouts must be functioning when lifting on rubber.
- 7. For pick and carry operation, boom must be centered over front of machine, mechanical swing lock engaged and load restrained from swinging. When handling loads in the structural range with capacities close to maximum ratings, travel should be reduced to creep speeds.
- 8. All lifting depends on proper tire inflation, capacity and condition. Capacities must be reduced for lower tire inflation pressures. See lifting capacity chart for tire used. Damaged tires are hazardous to safe operation of
- 9. Creep not over 200 ft of movement in any 30 minute period and not exceeding 1 mph.

Working range

160 ft main boom + 36 ft - 59 ft luffing extension



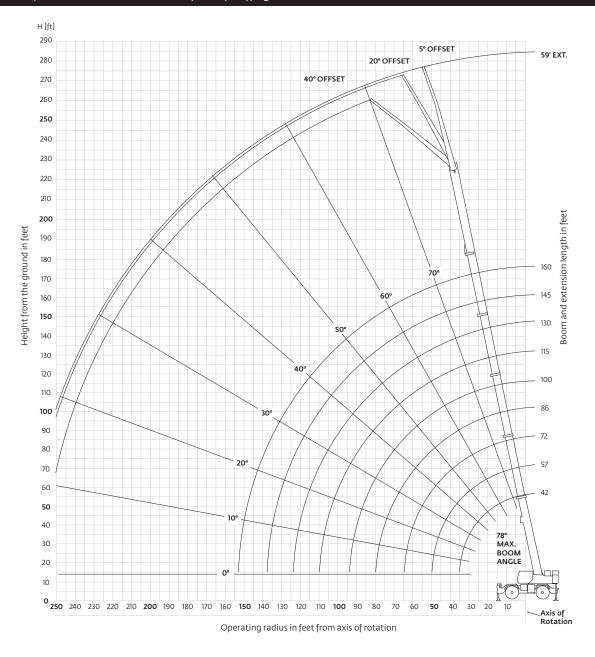
Operating radius in feet from axis of rotation

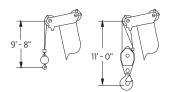


Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

Working range

160 ft main boom + 2 inserts + 36 ft - 59 ft luffing extension





Dimensions are for largest Grove furnished hook block and headache ball, with anti-two block activated.

36 ft - 59 ft luffing folding boom extension (fixed angle) 100 ft main boom

100 ft	36 ft - 59 ft		40,000 lb	27 f	00% it 10 in read	Q 360°
			Po	unds		
	5°	6 ft LENC	TH 40°	5°	59 ft LENG 20°	TH 40°
Feet	OFFSET	OFFSET #0091	OFFSET	OFFSET	OFFSET #0092	OFFSET
30	32,600 (78)					
35	30,700 (76)	*23,150 (78)				
40	28,950 (74)	22,150 (76.5)		14,950 (77.5)		
45	27,350 (71.5)	21,250 (74)	15,250 (78)	14,950 (75.5)		
50	25,900 (69.5)	20,450 (72)	14,850 (75.5)	14,950 (73.5)	12,350 (78)	
55	24,600 (67)	19,700 (69.5)	14,500 (73)	14,550 (72)	11,900 (77)	
60	23,400 (64.5)	19,050 (67)	14,200 (70.5)	14,150 (70)	11,500 (75)	
65	22,300 (62)	18,450 (65)	13,900 (68)	13,750 (68)	11,100 (73)	8050 (78)
70	21,300 (59.5)	17,850 (62)	13,650 (65.5)	13,350 (66)	10,700 (71)	7850 (76)
75	20,100	17,350 (59.5)	13,450	13,000	10,400 (69)	7660 (73.5)
80	18,100 (54.5)	16,900 (57)	13,300 (60)	12,550 (61.5)	10,050 (66.5)	7490 (71.5)
85	16,000 (51.5)	16,500 (54)	13,150 (57)	12,000 (59.5)	9780 (64.5)	7340 (69)
90	14,150 (49)	15,400 (51.5)	13,050 (54)	11,550 (57.5)	9510 (62.5)	7210 (66.5)
95	12,500 (46)	13,700 (48)	13,000 (50.5)	11,100	9,260 (60)	7090 (64)
100	11,050 (42.5)	12,100 (45)	12,750	10,650 (52.5)	9030 (57.5)	6980 (61.5)
105	9770 (39)	10,650 (41.5)		10,250 (50)	8820 (55)	6900 (59)
110	8490 (35.5)	9270 (37.5)		9930 (47.5)	8620 (52.5)	6830 (56)
115	7400 (31)	8060 (33)		9040 (45)	8440 (49.5)	6790 (53)
120	6320 (26)	6850 (28)		8150 (42)	8260 (47)	6750 (50)
125		,		7240 (39)	7820 (43.5)	/
130				6340 (35.5)	7380 (40.5)	
135				5570 (32)	6440 (36.5)	
140				4800 (28)	5510 (32)	
145				4100 (23)	, ,	
150				3410 (16)		
Min. boom angle for indicated length (no	5° load)	20°	40°	5°	20°	40°
Max. boon length (ft) 5° boom ar (no load)	at	100 ft			100 ft	

NOTE: () Boom angles are in degrees. A6-829-102550 #LMI operating code. Refer to LMI manual for operating instructions

instructions. *This capacity is based on maximum obtainable boom angle.

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 36 ft boom extension may be used for single or double line lifting service. 59 ft boom extension may be used for single line lifting service only.

WARNING: Lifting with the 36 ft extension base, with the 23 ft extension fly either erected or folded along side of extension base, is strictly prohibited.

3. Radii listed are for a 100 ft boom with the boom extension erected. For main boom lengths less than 100 ft, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.

36 ft - 59 ft luffing folding boom extension (fixed angle) 130 ft main boom

130 ft	36 ft - 59 ft		40,000 Ib	27 f	00% t 10 in read	Q 360°
			Pou	ınds		
	5°	6 ft LENC		5°	59 ft LENG 20°	
Feet	OFFSET	20° OFFSET #0091	40° OFFSET	OFFSET	OFFSET #0092	40° OFFSET
40	*23,350 (78)					
45	23,350 (76)	*21,300 (78)		*12,300 (78)		
50	23,350 (74)	20,700 (76.5)		12,300 (77.5)		
55	23,350 (72.5)	20,100 (75)	14,850 (78)	12,300 (76)		
60	23,350 (70.5)	19,500 (73)	14,550 (76)	12,300 (74.5)	11,600 (78)	
65	22,300 (68.5)	19,000 (71)	14,300 (74)	12,300 (73)	11,300 (77)	
70	20,350 (66.5)	18,500 (69)	14,050 (72)	12,300 (71)	10,950 (75)	
75	18,350 (64.5)	18,050 (67)	13,850 (70)	12,300 (69.5)	10,700 (73.5)	7850 (78)
80	16,600 (62.5)	17,000 (65)	13,650 (68)	12,300 (68)	10,400 (72)	7690 (76)
85	15,050 (60.5)	15,450 (63)	13,450 (66)	12,300 (66)	10,150 (70)	7550 (74.5)
90	13,650 (58.5)	14,050 (61)	13,300 (63.5)	12,250 (64.5)	9910 (68.5)	7420 (72.5)
95	12,400 (56.5)	12,800 (58.5)	13,150 (61.5)	11,900 (62.5)	9680 (66.5)	7300 (70.5)
100	11,300 (54)	11,650 (56.5)	11,950	11,450	9460 (64.5)	7190 (68.5)
105	10,300 (52)	10,650 (54)	10,950 (56.5)	10,500	9,260 (63)	7090 (66.5)
110	9340 (49.5)	9660 (52)	9950 (54)	9580 (57)	9060 (61)	7000 (64.5)
115	8480 (47)	8810 (49.5)	9070 (51.5)	8790 (55)	8800 (59)	6930 (62.5)
120	7630 (44.5)	7970 (46.5)	8200 (48.5)	8010 (53)	8550 (57)	6860 (60.5)
125	6700 (41.5)	7240 (44)	7430 (45.5)	7340 (51)	7840 (54.5)	6810 (58)
130	5780 (39)	6510 (41)	6670 (42.5)	6680 (49)	7140 (52.5)	6770 (55.5)
135	4980 (35.5)	5690 (37.5)	(42.3)	6100 (46.5)	6520 (50.5)	6500 (53.5)
140	4190 (32)	4880 (34)		5520 (44)	5910 (48)	6240 (50.5)
145	3500	4120 (30)		4860 (42)	5360 (45.5)	5640 (48)
150	(28) 2820 (23.5)	3360 (25.5)		4200 (39)	4820 (42.5)	5050 (45)
155	(23.3)	(23.3)		3580 (36.5)	4280 (40)	(43)
160				2970 (33.5)	3750 (36.5)	
165				2430 (30)	3120 (33)	
170				1890 (26)	2490 (29)	
Min. boom angle for indicated length (no	20°	20°	40°	20°	20°	40°
Max. boor length (ft) 5° boom a (no load)	at	100 ft			100 ft	

NOTE: () Boom angles are in degrees. A6-829-102554 #LMI operating code. Refer to LMI manual for operating instructions.

*This capacity is based on maximum obtainable boom angle.

NOTES:

- 1. All capacities above the bold line are based on structural strength of boom extension.
- 36 ft boom extension may be used for single or double line lifting service. 59 ft boom extension may be used for single line lifting service only.
 WARNING: Lifting with the 36 ft extension base, with the 23 ft extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Radii listed are for a 130 ft boom with the boom extension erected. For main boom lengths less than 130 ft, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

- 4. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- Capacities listed are with outriggers properly extended and vertical jacks set only.

36 ft - 59 ft luffing folding boom extension (fixed angle) 160 ft main boom

160 ft	36 ft - 59 ft		40,000 ll	00% t 10 in read	360	
			P	ounds		
	5°	6 ft LENG 20°	GTH 40°	5°	59 ft LENG 20°	TH 40°
Feet	OFFSET	OFFSET #0091	OFFSET	OFFSET	OFFSET #0092	OFFSET
50	15,550 (77.5)					
55	15,550 (76)					
60	15,550 (74.5)	14,950 (77.5)		9650 (78)		
65	15,550 (73)	14,950 (76)	*14,400 (78)	9650 (77)		
70	15,550 (71.5)	14,950 (74.5)	14,150 (77)	9650 (75.5)	9650 (78)	
75	14,900 (70)	14,250 (73)	13,950 (75.5)	9650 (74)	9650 (77.5)	
80	14,100 (68)	13,550 (71)	13,400 (74)	9650 (72.5)	9650 (76)	
85	13,400 (66.5)	12,900 (69.5)	12,800	9650 (71)	9650 (74.5)	7630 (78)
90	12,700 (65)	12,250 (68)	12,200 (70.5)	9650 (69.5)	9650 (73)	7510 (77.5)
95	11,500	11,700	11,650 (68.5)	9650 (68.5)	9650	7390 (75.5)
100	(63) 10,400	(66) 10,850	11,100	9570	(72) 9420 (70)	7290 (74)
105	(61.5) 9480	(64.5) 9910	(67) 10,200	(67) 9150	(70) 9010	7200
110	(59.5) 8570	(62.5) 8970	(65) 9360	(65) 8730	(68.5) 8610	(72.5) 7110
115	(58) 7780	(61) 8160	(63) 8530	(63.5) 8000	(67) 8220	(71) 7030
120	(56) 6990	(59) 7360	(61) 7700	(62) 7280	(65.5) 7840	(69.5) 6950
125	(54) 6320	(57) 6670	(59) 6980	(60.5) 6620	(64) 7180	(67.5) 6890
	(52) 5650	(55) 5980	(57) 6260	(59) 5970	(62.5) 6530	(66) 6830
130	(50) 5070	(53) 5380	(55) 5630	(57.5) 5400	(60.5) 5930	(64) 6320
135	(48) 4500	(51) 4780	(53) 5010	(55.5) 4830	(59) 5340	(62.5) 5820
140	(46) 3990	(49) 4250	(50.5) 4450	(54) 4340	(57) 4820	(60.5) 5260
145	(43.5) 3490	(46.5)	(48)	(52)	(55.5)	(58.5)
150	(41.5)	3730 (44)	3900 (45.5)	3850 (50)	4300 (53.5)	4710 (56.5)
155	2990 (38.5)	3260 (41.5)		3410 (48)	3840 (51.5)	4210 (54.5)
160	2490 (36)	2800 (38.5)		2980 (46)	3380 (49.5)	3710 (52)
165	1970 (33)	2300 (36)		2590 (44)	2960 (47.5)	3250 (50)
170	1450 (30)	1800 (32.5)		2210 (42)	2550 (45)	2790 (47.5)
175				1800 (39.5)	2170 (43)	
180				1390 (37.5)	1800 (40)	
185					1420 (37.5)	
Min. boor angle for indicated length (no	26° o load)	29°	40°	34°	36°	40°
Max. boor ength (ft) 5° boom a (no load)	at	100 ft			100 ft	S-829-102

NOTE: () Boom angles are in degrees. #LMI operating code. Refer to LMI manual for operating

instructions.
*This capacity is based on maximum obtainable boom angle.

NOTES:

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J765.
- 36 ft boom extension may be used for single or double line lifting service. 59 ft boom extension may be used for single line lifting service only.
 WARNING: Lifting with the 36 ft extension base, with the 23 ft extension fly either erected or folded along side of extension base, is strictly prohibited.
 Radii listed are for a 160 ft boom with the boom
- 3. Radii listed are for a 160 ft boom with the boom extension erected. For main boom lengths less than 160 ft, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is configured. For boom angles not shown, use the rating of the next lower boom angle.

WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.

- Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.

A6-829-102558

59 ft luffing folding boom extension with 1 or 2 inserts (fixed angle) 160 ft main boom

160 ft	59 ft	26 ft - 5 inser			100% 7 ft 10 in spread	Q 360°			
		Pounds							
	•	TH WITH 26	•	•		2 ft INSERT			
Feet	5° OFFSET	20° OFFSET #0095	40° OFFSET	5° OFFSET	20° OFFSET #1095	40° OFFSET			
70	6830 (78)								
75	6830 (77)			4400 (78)					
80	6830 (75.5)	6610 (78)		4400 (77.5)					
85	6830 (74.5)	6610 (77.5)		4400 (76.5)					
90	6830 (73)	6610 (76)		4400 (75.5)	4230 (78)				
95	6830 (72)	6610 (75)	6400 (78)	4400 (74.5)	4230 (77.5)				
100	6830 (70.5)	6610 (73.5)	6400 (77)	4400 (73)	4230 (76.5)				
105	6830 (69.5)	6610 (72.5)	6400 (76)	4400 (72)	4230 (75.5)	4000 (78)			
110	6830 (68)	6610 (71)	6400 (74.5)	4400 (71)	4230 (74)	4000 (77)			
115	6590 (66.5)	6520 (69.5)	6310 (73)	4400 (69.5)	4230 (73)	4000 (75.5)			
120	6350 (65)	6430 (68)	6230 (71.5)	4400 (68.5)	4230 (72)	4000 (74.5)			
125	5910 (64)	6120 (67)	5950 (70)	4400 (67.5)	4230 (70.5)	4000 (73)			
130	5480 (62.5)	5810 (65.5)	5680 (68.5)	4400 (66)	4230 (69.5)	4000 (72)			
135	4930 (61)	5480 (64)	5430 (67)	4110 (65)	4170 (68)	4000 (70.5)			
140	4380 (59.5)	5160 (62.5)	5190 (65.5)	3820 (63.5)	4120 (67)	4000 (69)			
145	3900 (58)	4640 (61)	4900 (64)	3350 (62.5)	3860 (65.5)	3780 (68)			
150	3420 (56.5)	4130 (59.5)	4620 (62.5)	2880 (61)	3610 (64)	3570 (66.5)			
155	3000 (55)	3680 (58)	4140 (60.5)	2470 (59.5)	3200 (63)	3360 (65)			
160	2580 (53.5)	3230 (56.5)	3660 (59)	2060 (58.5)	2800 (61.5)	3160 (63.5)			
165	2210 (52)	2820 (54.5)	3220 (57.5)	1690 (57)	2400 (60)	2810 (62.5)			
170	1840 (50)	2420 (53)	2780 (55.5)	(37)	2010 (59)	2460 (61)			
175	1510 (48.5)	2060 (51)	2380 (53.5)		1650 (57.5)	2070 (59.5)			
180	(+0.5)	1700 (49.5)	1990 (51.5)		(57.5)	1690 (58)			
Min. boor angle for indicated length (no	o load)	46°	48°	55°	56°	56°			
Max. boo length (ft 5° boom a (no load)	:) at	57 ft			57 ft				

NOTE: () Boom angles are in degrees. A6-829-102562 #LMI operating code. Refer to LMI manual for operating instructions.

- 1. All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. 59 ft folding boom extension length may be used for single line lifting service only.

 NOTE: Lifting with the 36 ft extension base with either one or two 26 ft insert sections installed is not permitted.
- 3. For main boom lengths less than 160 ft with the boom extension erected, the rated loads are determined by boom angle. Use only the column which corresponds to the boom extension length and offset for which the machine is set up. For boom angles not shown, use the rating of the next lower boom angle.
- 4. **WARNING:** Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 5. Boom angle is the angle above or below horizontal of the longitudinal axis of the boom base section after lifting rated load.
- 6. Capacities listed are with outriggers properly extended and vertical jacks set only.

36 ft - 59 ft luffing folding boom extension 160 ft main boom (load luffing)

160 ft	36 ft - 59 ft	40,000 lb	100% 27 ft 10 ir spread	(Q) 360°
	Pounds			
	36 ft LE 5° - 20°		59 ft L 5° - 20°	ENGTH
Feet	OFFSET #00	20° - 40° OFFSET 091	OFFSET #00	20° - 40° OFFSET 092
60	14,950			
65	14,950	10,250		
70	14,950	10,050	9650	
75	14,250	9840	9320	
80	13,550	9640	8950	
85	12,900	9460	8600	5100
90	12,250	9280	8290	4980
95	11,500	9130	7990	4880
100	10,400	8980	7720	4780
105	9480	8850	7470	4690
110	8570	8720	7220	4600
115	7780	8160	7010	4520
120	6990	7360	6790	4440
125	6320	6670	6600	4370
130	5650	5980	5970	4310
135	5070	5380	5400	4250
140	4500	4780	4830	4200
145	3990	4250	4340	4160
150	3490	3730	3850	4120
155	2990		3410	3840
160	2490		2980	3380
165	1970		2590	2960
170	1450		2210	2550
175			1800	
180			1390	
Min. boom angle for indicated length (no	29°	40°	36°	40°
Max. bool length (ft) 5° boom a (no load)) at 100	ft	100	ft

A6-829-102575

#LMI operating code. Refer to LMI for operating instructions

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 36 ft boom extension length may be used for single or double line lifting service. 59 ft boom extension may be used for single line lifting service only.
 - **WARNING:** Lifting with the 36 ft extension base, with the 23 ft extension fly either erected or folded along side of extension base, is strictly prohibited.
- 3. Capacities are applicable for a 160 ft main boom length only.
 - WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- 4. The loads for luffing depend on the angle of the main boom, angle of the boom extension and dynamic working pressure of the luffing cylinder for the boom extension.
- 5. Capacities listed are with outriggers properly extended and vertical jacks set only.

59 ft luffing folding boom extension with 1 or 2 inserts 160 ft main boom (load luffing)

160 ft	59 ft 2	6 ft - 52 ft 40, Insert	,000 lb 100 27 ft 1 spre	IO in
		Pou	ınds	
Feet	5° - 20° OFFSET	vith 26 ft INSERT 20° - 40° OFFSET 0095	5° - 20° OFFSET	20° - 40° OFFSET
80	6610			
85	6610			
90	6610		4230	
95	6610	4420	4230	
100	6610	4330	4230	
105	6610	4250	4230	4000
110	6430	4180	4230	4000
115	6250	4100	4230	4000
120	6070	4020	4230	4000
125	5900	3970	4230	4000
130	5480	3920	4230	4000
135	4930	3870	4110	4000
140	4380	3810	3820	3960
145	3900	3770	3350	3780
150	3420	3730	2880	3570
155	3000	3680	2470	3200
160	2580	3230	2060	2800
165	2210	2820	1690	2400
170	1840	2420		2010
175	1510	2060		1650
180		1700	_	
Min. boom angle for indicated length (no	46°	48°	56°	56°
length (ft)	Max. boom length (ft) at 5° boom angle (no load)		57 †	ft

#LMI operating code. Refer to LMI manual for operating A6-829-102579 instructions.

- All capacities above the bold line are based on structural strength of boom extension and do not exceed 85% of tipping loads, in accordance with SAE J-765.
- 2. 59 ft boom extension may be used for single line lifting service only.
 - WARNING: Lifting with the 36 ft extension base, with either one or two 26 ft insert sections installed is not permitted.
- 3. Capacities are applicable for a 160 ft main boom length only.
 - WARNING: Operation of this machine with heavier loads than the capacities listed is strictly prohibited. Machine tipping with boom extension occurs rapidly and without advance warning.
- occurs rapidly and without advance warning.

 4. The loads for luffing depend on the angle of the main boom, angle of the boom extension and dynamic working pressure of the luffing cylinder for the boom extension.
- Capacities listed are with outriggers properly extended and vertical jacks set only.

Installation and removal of counterweight and auxiliary hoist rated lifting capacities in pounds

On outriggers fully extended- 360°			
Radius in feet	#0801 Main boom length 42 ft*		
10	48,000		
12	48,000		
15	48,000		
20	48,000		
25	48,000		
30	48,000		

Installation and removal of front and rear outrigger boxes rated lifting capacities in pounds without counterweight

On rubber (stationary) - 360°			
Radius in feet	#9810 Main boom length 42 ft*		
10	11,600		
12	11,600		
15	11,600		
20	11,600		

^{*} The boom must be fully retracted.

Notes for on rubber

- Capacities are applicable to machines equipped with Titan 33.25 x 29 (38 ply) tires at 85 psi cold inflation pressure Capacities do not exceed 75% of tipping loads as determined by test in accordance with SAE J765.
- With no load, the boom angle must not be less than 35° when over sides of machine since loss of stability will occur causing a tipping condition. To lower boom below 35° boom angle, boom must be swung over front or rear and LMI bypass activated.
- Once one outrigger box is installed, do not swing load over that end of the machine while installing the other outrigger box.
- Each outrigger box assembly weighs 9373 lb including the outrigger beams and pads.
- May be used for single or double line lifting service.

Load handling

Weight reductions for load handling devices			
36 ft - 59 ft manual boom extension	Pounds		
*36 ft extension (erected)	5260		
*59 ft extension (erected)	9860		
Manual extension with 26 ft insert	Pounds		
*59 ft extension (erected)	14,100		
Manual extension with 52 ft insert	Pounds		
*59 ft extension (erected)	19,400		
36 ft - 59 ft luffing folding boom extension	Pounds		
*36 ft extension (erected)	5650		
*59 ft extension (erected)	10,300		
Luffing extension with 26 ft insert	Pounds		
*59 ft extension (erected)	14,800		
Luffing extension with 52 ft insert	Pounds		
*59 ft extension (erected)	20,400		

*Reduction of main boom capacities (no deduct required for stowed boom extension.

When lifting over boom nose with 36 ft or 59 ft extension erected, the outriggers must be fully extended or 50% extended (19 ft 9 in) spread. When lifting over main boom nose with 26 ft or 52 ft insert erected, the outriggers must be fully extended.

Auxiliary boom nose	Pounds
	120
Hook blocks and headache balls	Pounds
80 USt, 5-sheave	1600+
130 USt, 8-sheave	2400+
10 USt overhaul ball	680+

+Refer to rating plate for actual weight. When lifting over swingaway and/or jib combinations, deduct total weight of all load handling devices reeved over main boom nose directly from swingaway or jib capacity.

NOTE: All load handling devices and boom attachments are

NOTE: All load handling devices and boom attachments are considered part of the load and suitable allowances MUST BE MADE for their combined weights. Weights are for Grove furnished equipment.

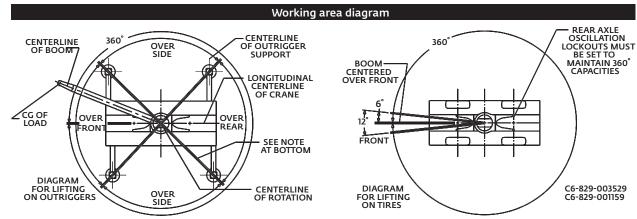
Reeving diagram

Line pulls and reeving information			
Hoists	Cable specs	Permissable line pulls	Nominal cable length
Main Model 35	19 mm (3/4 in) 6 x 37 class, EIPS, IWRC Special Flexible Min. Breaking Str. 58,800 lb	16,800 lb	950 ft
Main Model 35	19 mm (3/4 in) 35 x 7 Class Rotation resistant (non-rotating) Min. breaking Str. 85,500 lb	16,800 lb	950 ft
Auxiliary Model 35	19 mm (3/4 in) 35 x 7 Class Rotation resistant (non-rotating) Min. breaking Str. 85,500 lb	16,800 lb	700 ft

The approximate weight of 3/4 in wire rope is 1.5 lb/ft

Hoist performance				
Wire rope layer	Hoist line pulls two-speed hoist		Drum rope	capacity (ft)
	Low available lb*	High available lb*	Layer	Total
1	19,267	11,094	136	136
2	17,709	10,197	148	285
3	16,384	9434	160	445
4	15,243	8777	172	618
5	14,251	8206	184	802
6	13,380	7705	196	998

^{*} Max lifting capacity: 6×37 class and 35×7 class = 16,800 lb



Bold lines determine the limiting position of any load for operation within working areas indicated.

Notes

Notes

Grove RT9130E-2 27



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